

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings of claims in the application:

LISTING OF CLAIMS:

Claims 1-8 (cancelled)

9. (new) A blood purifying apparatus comprising a dialysate feed means, a replacement fluid feed means, a drain means, a blood purifying device, and a blood circulation path consisting of a blood drawing line and a blood retransfusing line, wherein:

said dialysate feed means comprises: a dialysate transfer line of which one end is connected to said blood purifying device and the other end connected to a dialysate reservoir unit; a dialysate transfer pump disposed in said line; a dialysate reservoir container connected to a dialysate branch line branching off on an inlet side of said dialysate transfer pump; and a shutoff valve attached to said dialysate transfer line upstream of a branch portion;

said replacement fluid feed means comprises: a replacement fluid feeding line of which one end is connected to said blood retransfusing line and the other end connected to a replacement fluid reservoir unit; a replacement fluid transfer pump disposed in said line; a replacement fluid reservoir container connected to a replacement fluid branch line branching off on an inlet side of said replacement fluid transfer pump; and a shutoff valve attached to said replacement fluid transfer line upstream of a branch portion;

said drain means comprises: a drain line of which one end is connected to said blood purifying device and the other end opened; a drain transfer pump disposed in said line; a drain

reservoir container connected to a drain branch line branching off on an outlet side of said drain transfer pump; and a shutoff valve attached to said drain transfer line downstream of a branch portion,

wherein the three reservoir containers are each equipped with a fluid level sensor, said apparatus further comprising a weightmeter for weighing the said three reservoir containers at once, and a control unit for controlling the opening and closing of said shutoff valves and the pump flow rate of each of said transfer pumps.

10. (new) The blood purifying apparatus according to claim 9, wherein the individual fluid level sensors detect an upper limit of a fluid in each of said reservoir containers.

11. (new) The blood purifying apparatus according to claim 9, wherein the fluid level sensor for said drain reservoir container detects a lower limit of a fluid in said drain reservoir container, and the fluid level sensors for said dialysate reservoir container and the replacement fluid reservoir container detect an upper limit of fluids in said dialysate reservoir container and the replacement fluid reservoir container.

12. (new) The blood purifying apparatus according to claim 9, wherein said control unit 30 performs a removed body fluid weight measuring phase consisting of:

a first phase in which the shutoff valves 15, 16, and 17 are opened, whereby said dialysate reservoir container 9 and said replacement fluid reservoir container 10 are each filled with a fluid while at the same time a fluid is discharged from said drain reservoir container 8; and

a second phase in which said apparatus is controlled with each of said shutoff valves 15, 16, and 17 closed, and a

change in the total fluid weight in said dialysate reservoir container 9, said replacement fluid reservoir container 10, and said drain reservoir container 8 during the operation of said apparatus is acquired from information provided by said weightmeter 20 in order to weigh the removal weight of body fluid,

wherein said control unit 30 controls the flow rate of at least one of the transfer pumps such that a desired water-removed weight can be obtained in said second phase.

13. (new) The blood purifying apparatus according to claim 9, wherein said control unit 30 performs a feed weight measuring phase consisting of:

a third phase in which each of said shutoff valves 15, 16, and 17 is opened, whereby said dialysate reservoir container 9 and said replacement fluid reservoir container 10 are filled with individual fluids while at the same time a fluid is discharged from said drain reservoir container 8; and

a fourth phase in which said apparatus is controlled with only the shutoff valve 15 for said dialysate feed means A and the shutoff valve 16 for said replacement fluid feed means B closed, and in which a change in the total fluid weight in said dialysate reservoir container 9, said replacement fluid reservoir container 10, and said drain reservoir container 8 is acquired from information provided by said weightmeter 20 so as to calculate a feed weight which is the sum of the weight of replacement fluid and the weight of the dialysate,

wherein said control unit 30 controls the flow rate of the dialysate transfer pump and the replacement fluid transfer pump such that a desired feed weight can be obtained during the fourth phase.

14. (new) The blood purifying apparatus according to claim 12, wherein a flow rate control is performed based on an

arbitrary combination of said removed body fluid weight measuring phase and said feed weight measuring phase.

15. (new) The blood purifying apparatus according to claim 12, wherein a flow rate control is performed by alternately repeating said removed body fluid weight measuring phase and said feed weight measuring phase.

16. (new) The blood purifying apparatus according to claim 9, wherein said apparatus is of a continuous and slow type."

17. (new) A method of controlling the blood purifying apparatus according to claim 9, said method comprising performing a removed body fluid weight measuring phase consisting of:

a first phase in which the shutoff valves 15, 16, and 17 are opened, whereby said dialysate reservoir container 9 and said replacement fluid reservoir container 10 are each filled with a fluid while at the same time a fluid is discharged from said drain reservoir container 8; and

a second phase in which said apparatus is controlled with each of said shutoff valves 15, 16, and 17 closed, and a change in the total fluid weight in said dialysate reservoir container 9, said replacement fluid reservoir container 10, and said drain reservoir container 8 during the operation of said apparatus is acquired from information provided by said weightmeter 20 in order to weigh the removal weight of body fluid,

wherein said control unit 30 controls the flow rate of the transfer pumps 6, 7, and 5 such that a desired removal weight of body fluid can be obtained in said second phase.

18. (new) A method of controlling the blood purifying apparatus according to claim 9, said method comprising performing a feed weight measuring phase consisting of:

a third phase in which each of said shutoff valves 15, 16, and 17 is opened whereby said dialysate reservoir container 9 and said replacement fluid reservoir container 10 are filled with individual fluids while at the same time a fluid is discharged from said drain reservoir container 8; and

a fourth phase in which said apparatus is controlled with only the shutoff valve 15 for said dialysate feed means A and the shutoff valve 16 for said replacement fluid feed means B closed, and in which a change in the total fluid weight in said dialysate reservoir container 9, said replacement fluid reservoir container 10, and said drain reservoir container 8 is acquired from information provided by said weightmeter 20 so as to calculate a feed weight which is the sum of the weight of replacement fluid and the weight of the dialysate,

wherein said control unit 30 controls the flow rate of the dialysate transfer pumps 6, 7, and 5 such that a desired feed weight can be obtained during the fourth phase.

19. (new) A method of controlling the blood purifying apparatus according to claim 9, said method comprising an arbitrary combination of the control method based on said removed body fluid weight measuring phase according to claim 14 and the control method based on said feed weight measuring phase according to claim 15.

20. (new) The blood purifying apparatus control method according to claim 19, said method comprising alternately repeating the control method based on the removed body fluid weight measuring phase and based on the feed weight measuring phase.